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In the Claims:

Please cancel claim 17.

Please amend the below/claims as indicated.

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1. (Original) A method for transferring data comprising:
providing a master request bus;
providing a slave request bus;
initiating an operation utilizing a protocol when a master request and an arbiter grant is received from the master request bus;
wherein the protocol enables transfer of data between computer hardware operating according to different protocols.

2. (Currently Amended) A method for transferring data. The method for transferring data according to claim 1, further comprising:
providing a master request bus;
providing a slave request bus;
initiating an operation utilizing a protocol when a master request and an arbiter grant is received from the master request bus;
wherein the protocol enables transfer of data between computer hardware operating according to different protocols;
transferring data from an input buffer to a packet task manager;
dispatching the data from the packet task manager to an analysis machine;
classifying the data in the analysis machine; and
modifying and forwarding the data in a packet manipulator.

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3. (Currently Amended) The method for transferring data according to claim 2, further comprising transferring the data after modifying and forwarding to an output buffer.
4. (Currently Amended) The method for transferring data according to claim 2, further comprising processing data packets at a rate of at least 10 Gbs.
5. (Original) A global access bus for transferring data, said global access bus comprising:
a master request bus; and
a slave request bus operationally connected to said master request bus;
wherein said master request bus and said slave request bus utilize a protocol enabling transfer of data between computer hardware operating according to different protocols.
6. (Currently Amended) A global access bus for transferring data, according and associated apparatus, to claim 5, in combination with an apparatus comprising:
a master request bus;
a slave request bus operationally connected to said master request bus;
wherein said master request bus and said slave request bus utilize a protocol enabling transfer of data between computer hardware operating according to different protocols;
an analysis machine having multiple pipelines, wherein one pipeline is dedicated to directly manipulating individual data bits of a bit field;
a packet task manager operationally connected to said analysis machine; and,
a packet manipulator operationally connected to said analysis machine.
7. (Original) The apparatus according to claim 6, wherein said analysis machine is multi-threaded.
8. (Original) The apparatus according to claim 6, wherein said analysis machine has 32 threads.
9. (Currently Amended) The apparatus according to claim 6, further comprising:
a packet task manager operationally connected to said analysis machine; and

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a packet manipulator operationally connected to said analysis machine.

10. (Currently Amended) The apparatus according to claim 6, further comprising:
an external memory engine operationally connected to said analysis machine; and
a hash engine operationally connected to said analysis machine.
11. (Currently Amended) The apparatus according to claim 6, further comprising:
packet input global access bus software code used for flow of data packet information
from a flexible input data buffer to an analysis machine.
12. (Currently Amended) The apparatus according to claim 6, further comprising:
packet data global access bus software code used for flow of packet data between a
flexible data input bus and a packet manipulator.
13. (Currently Amended) The apparatus according to claim 6, further comprising:
statistics data global access bus software code used for connection of an analysis machine
to a packet manipulator.
14. (Currently Amended) The apparatus according to claim 6, further comprising:
private data global access bus software code used for connection of an analysis machine
to an internal memory engine submodule.
15. (Currently Amended) The apparatus according to claim 6, further comprising:
lookup global access bus software code used for connection of an analysis machine to an
internal memory engine submodule.
16. (Currently Amended) The apparatus according to claim 6, further comprising:
results global access bus software code used for providing flexible access to an external
memory.

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17. (Cancelled)

18. (Currently Amended) The apparatus according to claim 6, further comprising:
a bi-directional access port operationally connected to said analysis machine;
a flexible data input buffer operationally connected to said analysis machine; and
a flexible data output buffer operationally connected to said analysis machine.